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**Complete if Known**

Application Number	10/806,148
Filing Date	March 23, 2004
First Named Inventor	MIURA et al
Art Unit	<del>3720</del> 3729
Examiner Name	D. Tugbang
Attorney Docket Number	025720-00025

Sheet	1	of	1
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Examiner Signature	/A. Dexter Tugbang/	Date Considered	1/8/07
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.



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Substitute for form 1449B/PTO

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Substitute for form 1449A/PTO

## Form PTO/SB/08a

**Complete if Known**

Application Number	10/806.148
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Filing Date	March 23, 2004
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First Named Inventor	MIURA et al.
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Art Unit	3726
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Examiner Name	Not Yet Assigned
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Attorney Docket Number	025720-00025
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## PATENT DOCUMENTS

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Form PTO/SB/08b

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Application Number	10/806.148
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Filing Date	March 23, 2004
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First Named Inventor	MIURA et al.
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Art Unit	<del>9726</del>	3729
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Examiner Name	Not Yet Assigned
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Attorney Docket Number

025720-00025

## NON PATENT LITERATURE DOCUMENTS

Examiner  
Initials\*Cite  
No.¹

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

T<sup>2</sup>

ADT

**"Spontaneous Bonding? – World of Room Temperature Bonding", Gendai Kagaku, pp. 31-38 (July 1998).**

TAKAGIL et al., "Room-temperature Wafer Bonding of Si to LiNbO<sub>3</sub>, LiTaO<sub>3</sub>, Gd<sub>3</sub>Ga<sub>5</sub>O<sub>12</sub> by Ar-Beam Surface Activation", *Journal of Micromech and Microengineering*, Vol. 11, No. 4, pp. 348-352 (2001).

**X**

## ADT

TAKAGI et al., "Room-Temperature Bonding of Si Wafers to Pt Films on SiO<sub>2</sub> or LiNbO<sub>3</sub> Substrates Using Ar-Beam Surface Activation, Japanese Journal of Applied Physics, Vol. 38, PP. L1559-L1561, Part 2, No. 12B (1999).

**X**

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Signature**

**/A. Dexter Tugbang/**

Date \_\_\_\_\_

**Considered**

1/8/07

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER

025720-00025

NEW PATENT  
APPLICATION

## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Michio MIURA et al.

FILING DATE

March 23, 2004

GROUP ART UNIT

3729

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO PART.		
ADT	AG	JP3101280	April 26, 1991	Japan	-	-			X
	AH	JP9208399	August 12, 1997	Japan	-	-			X
ADT	AI	JP11055070	February 26, 1999	Japan	-	-			X
	AJ								
	AK								
	AL								

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

ADT	AM	"SAW Properties Of SiO <sub>2</sub> /128° Y-X LiNbO <sub>3</sub> Structure Fabricated by Magnetron Sputtering Technique," Kazuhiko YAMANOUCI et al., IEEE Transactions on Sonics and Ultrasonics, Vol. SU-31, No. 1, January 1984, pages 51 - 57
	AN	"Temperature Stable SAW Devices Using Directly Bonded LiTaO <sub>3</sub> /Glass Substrates," H. SATO et al., 1998 IEEE Ultrasonics Symposium, pages 335 - 338
ADT	AO	"Theoretical Analysis of SAW Propagation Characteristics under the Strained Medium and Applications for High Temperature Stable High Coupling SAW Substrates," K. YAMANOUCI et al., 1999 IEEE Ultrasonics Symposium, pages 239 - 242, page 51 - 52 of reference in Japanese

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